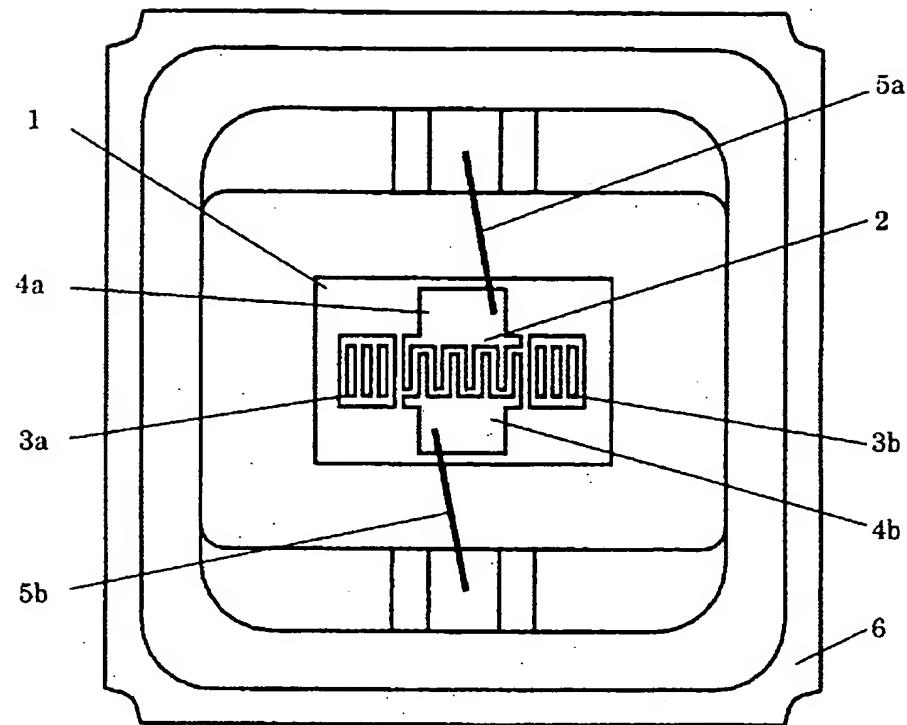
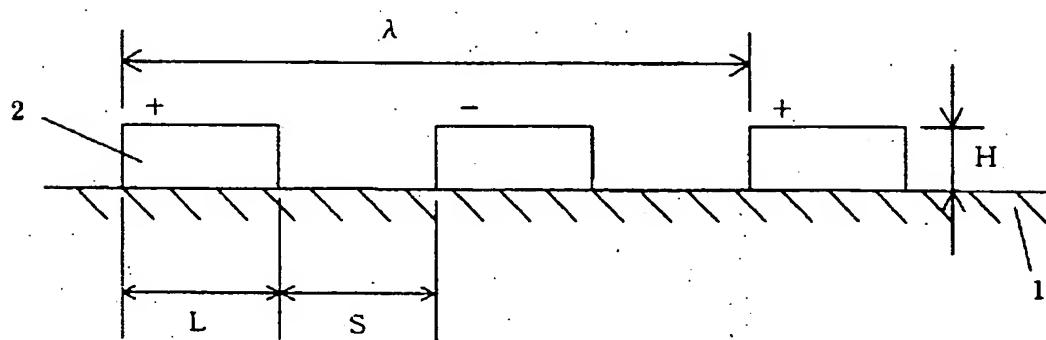


[Fig. 1]

(a)



(b)

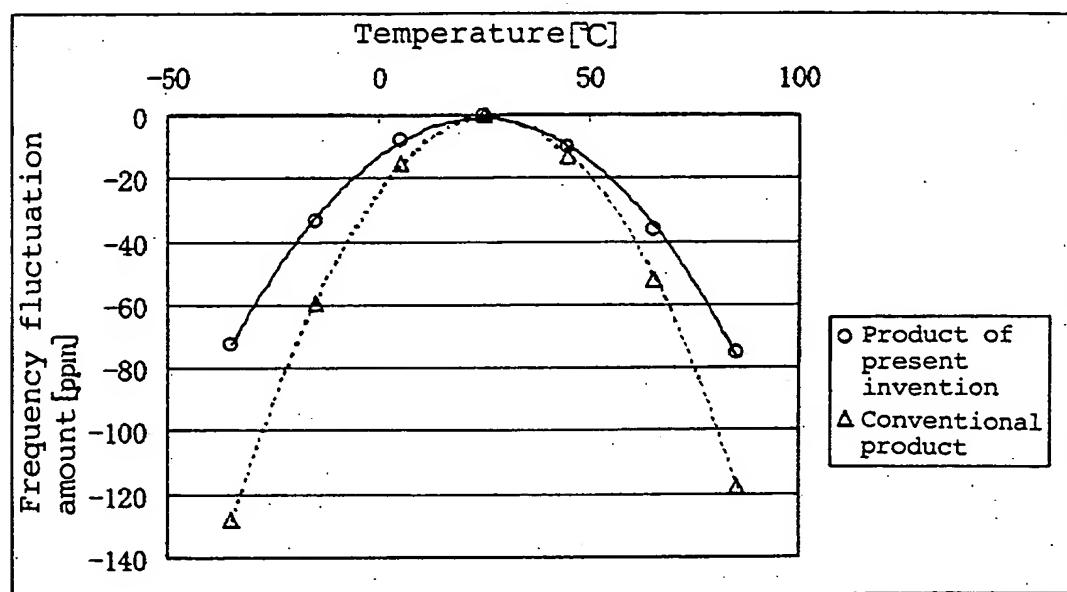


[Fig.2]

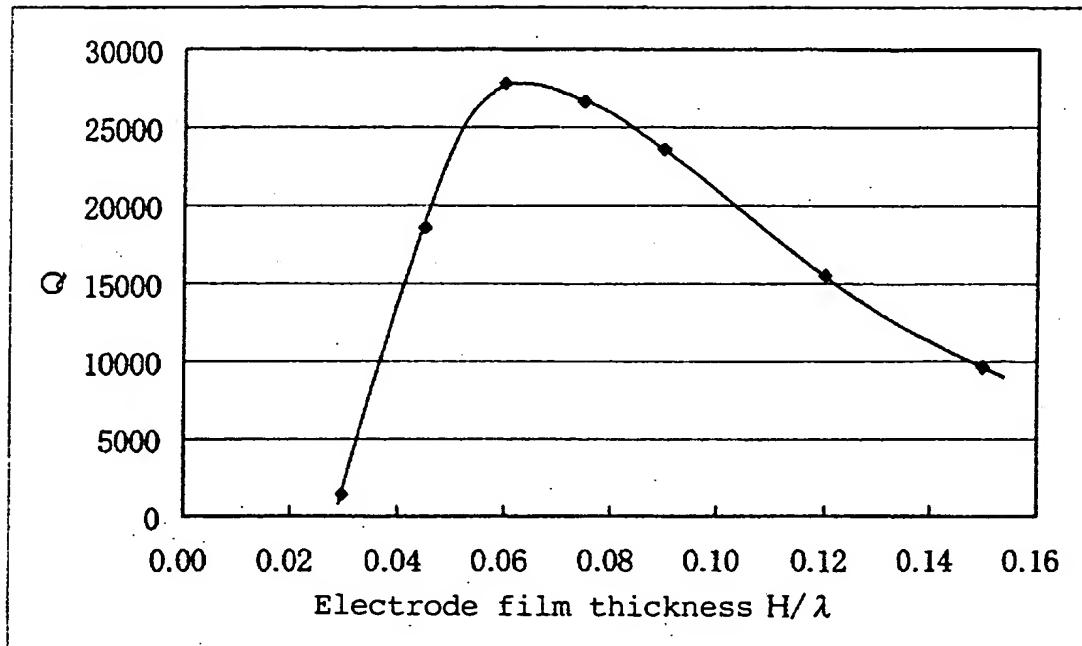
(a)

	Product of present invention	Conventional product (ST cut quartz)	Unit
Q value	27500	15000	-
Figure of merit	21.2	10.7	-
Secondary temperature coefficient	-0.020	-0.034	ppm/ $^{\circ}\text{C}^2$

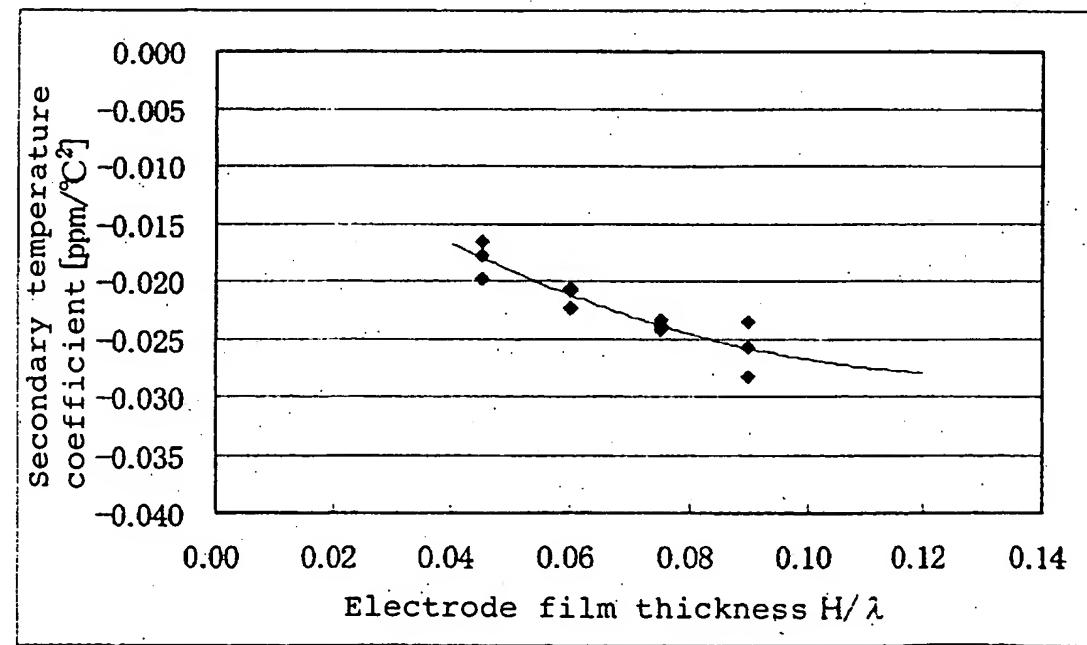
(b)



[Fig. 3]

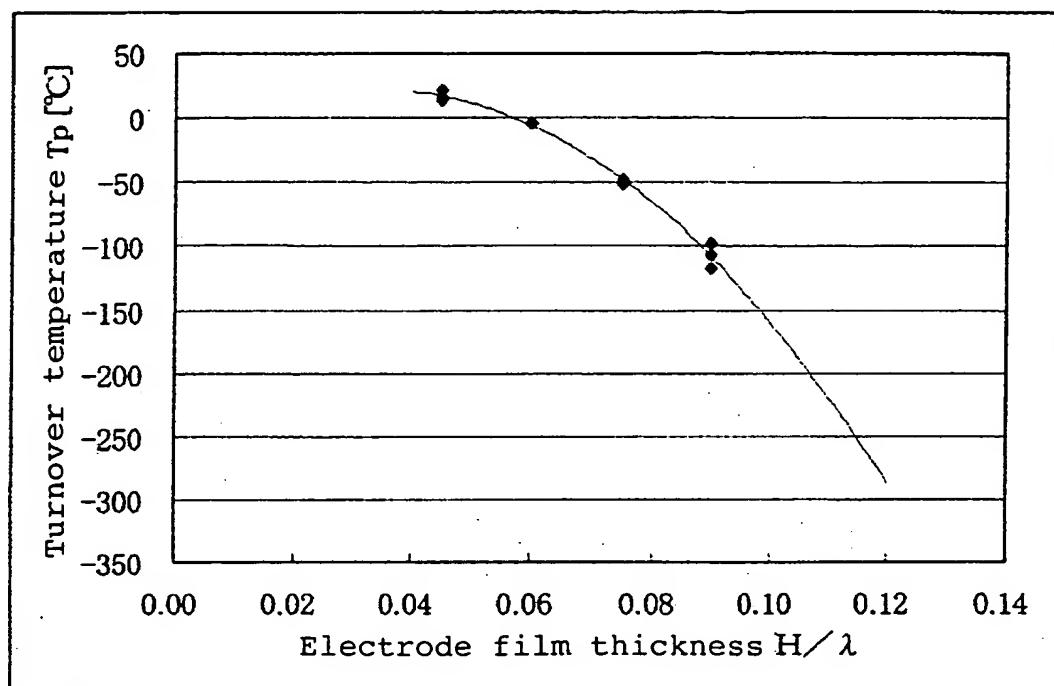


[Fig. 4]

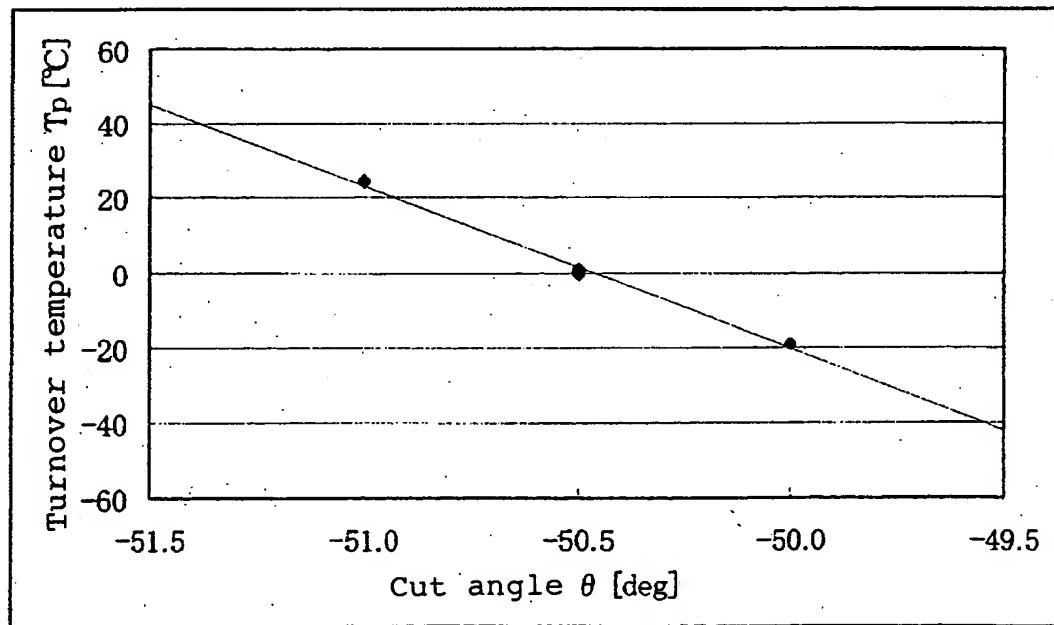


[Fig. 5]

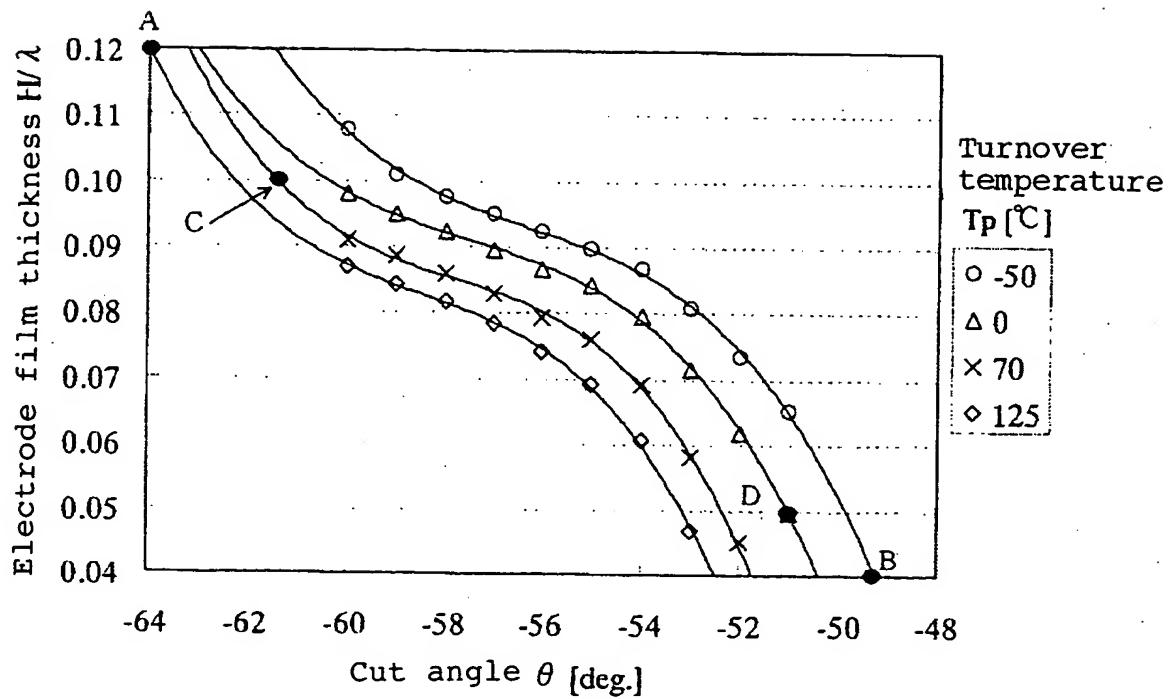
(a)



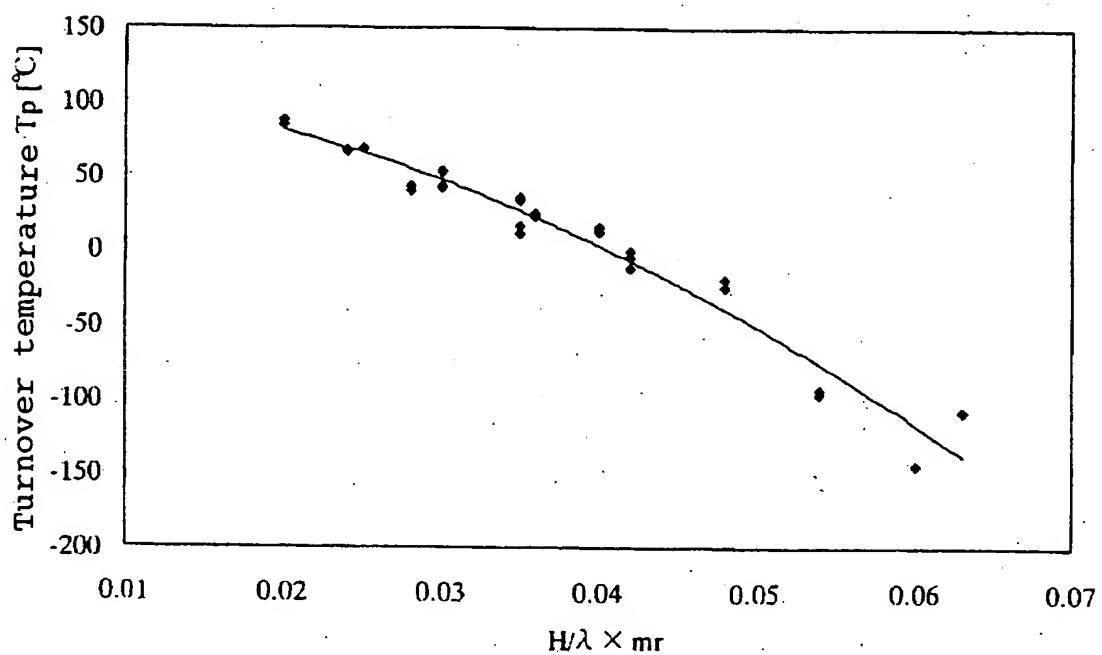
(b)



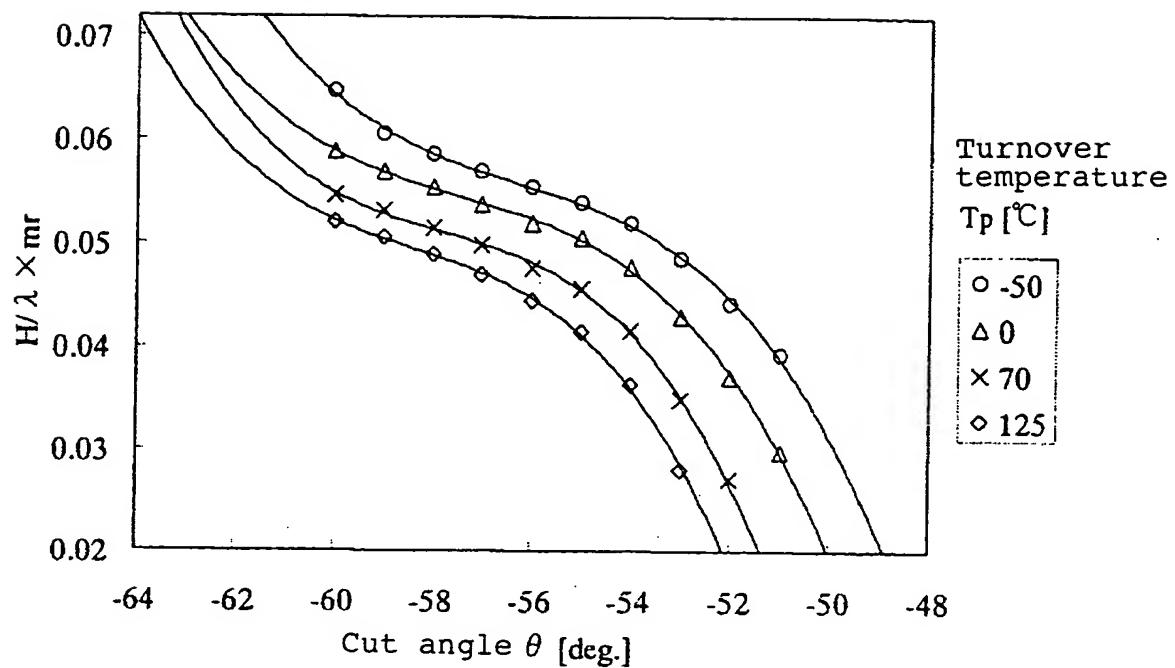
[Fig. 6]



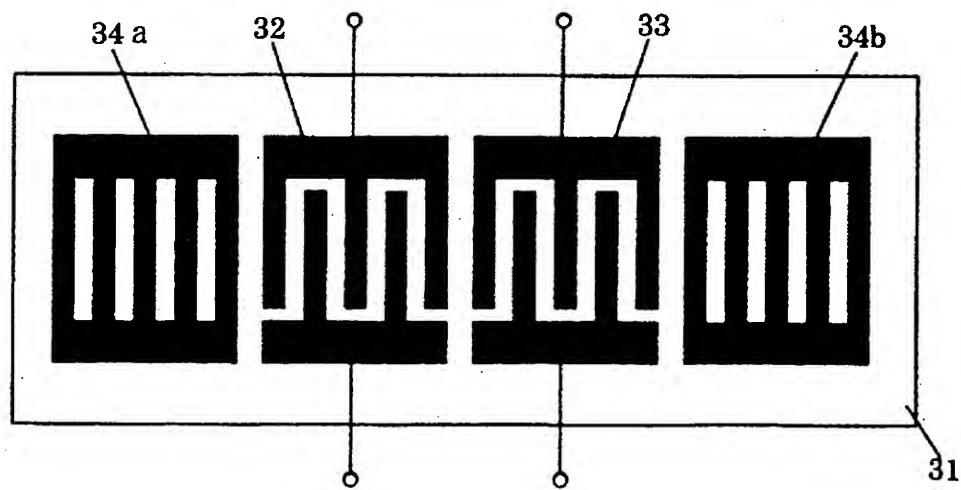
[Fig. 7]



[Fig.8]

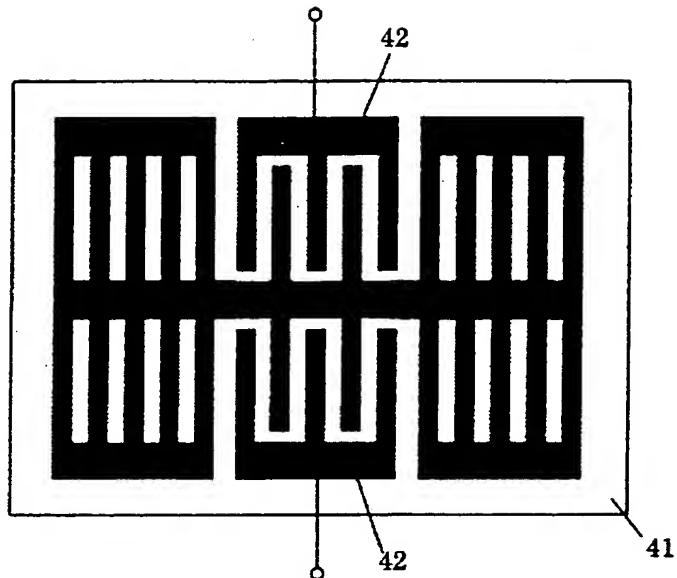


[Fig.9]

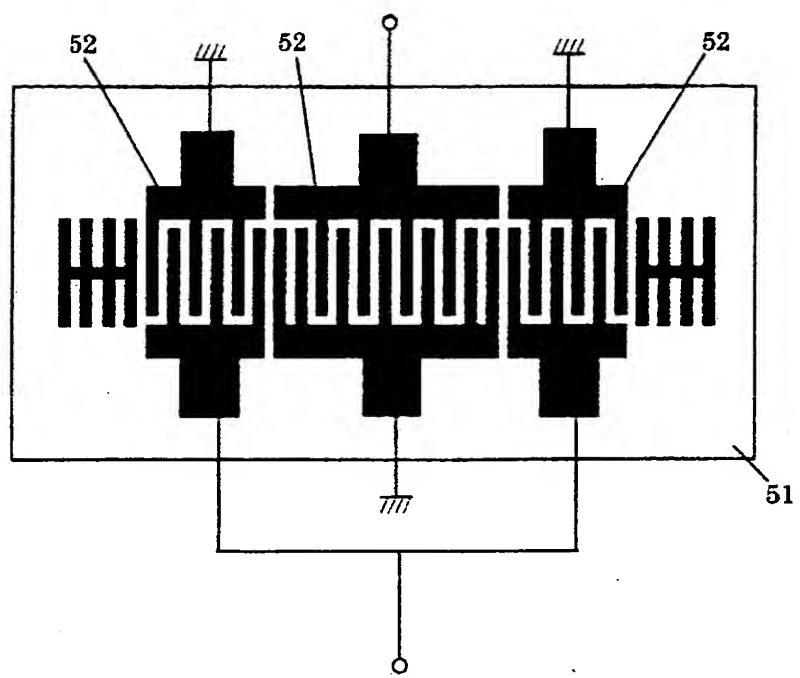


[Fig.10]

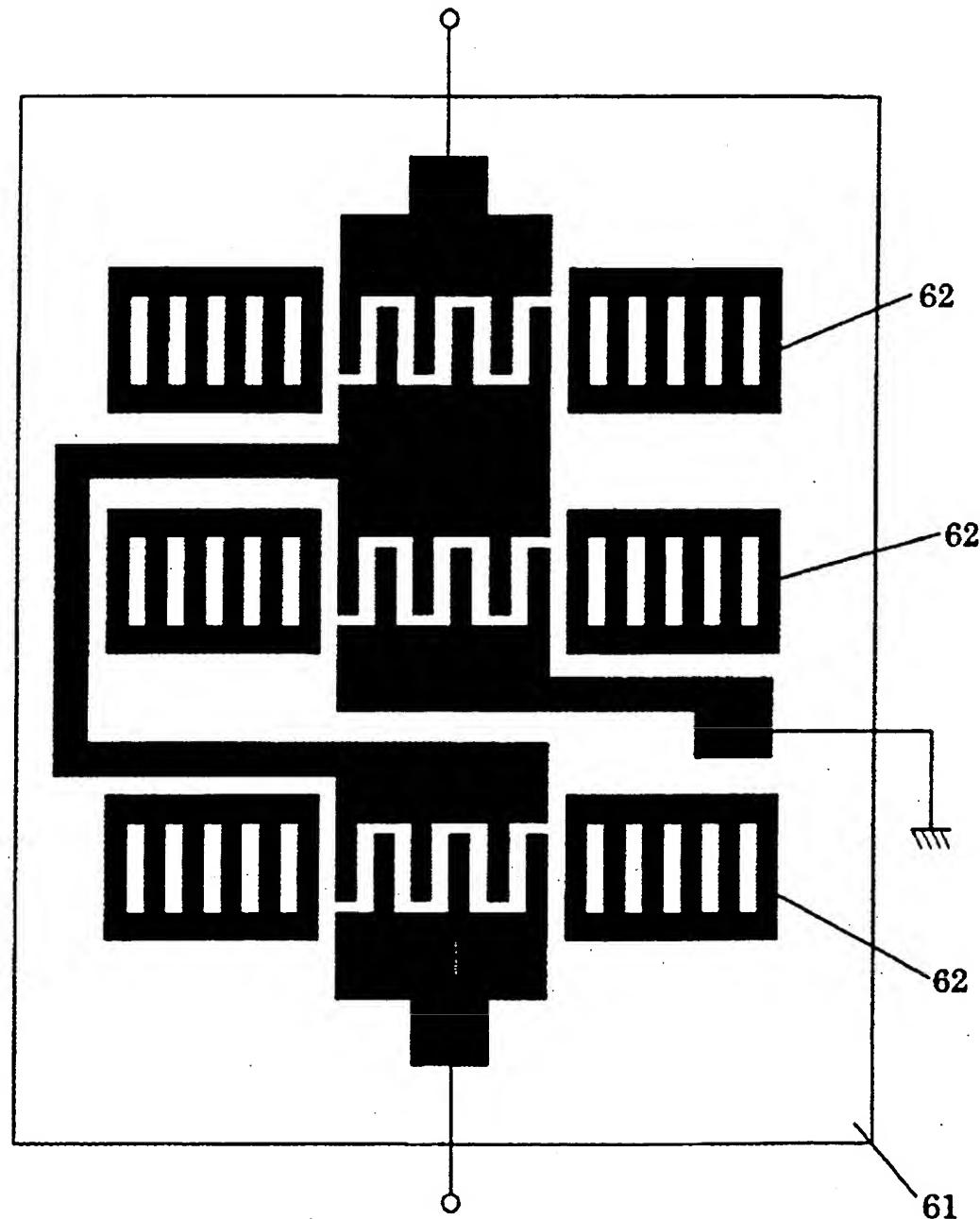
(a)



(b)

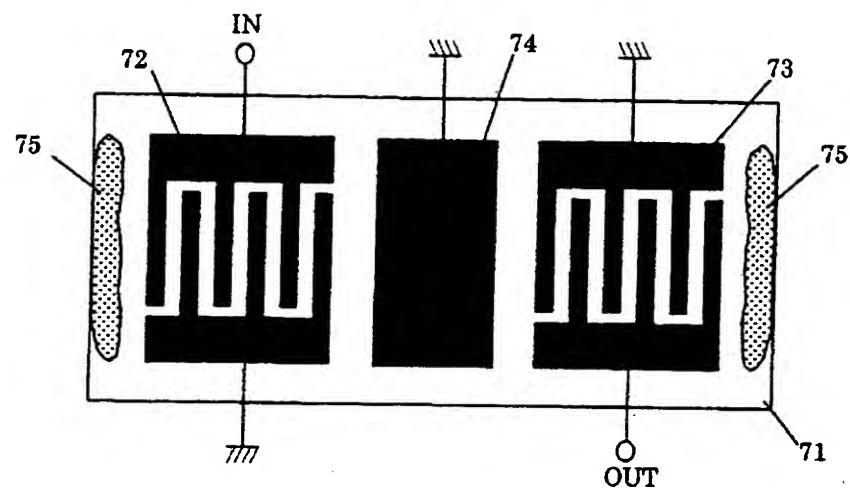


[Fig.11]

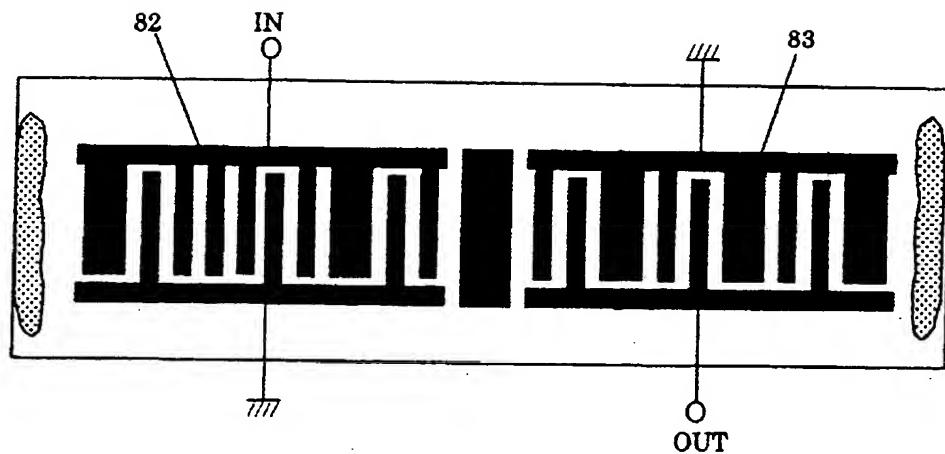


[Fig. 12]

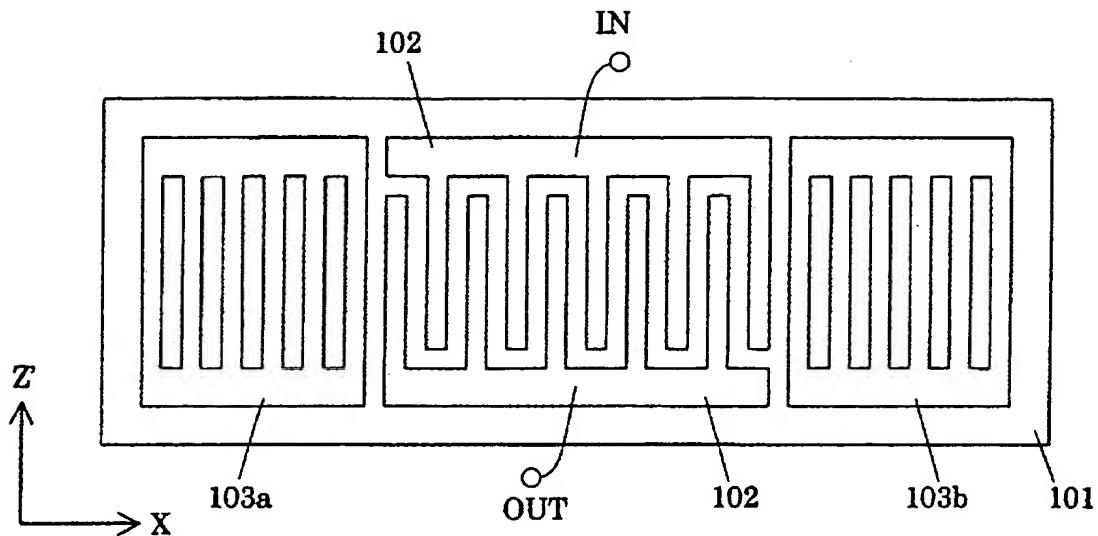
(a)



(b)

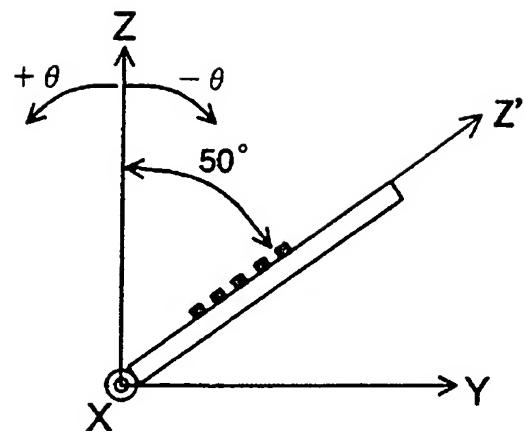


[Fig.13]

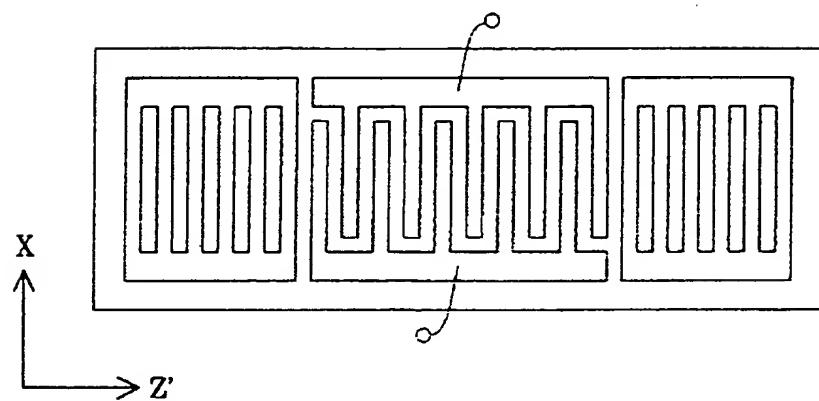


[Fig. 14]

(a)



(b)



[Fig.15]

